

CLAIMS

1. A scroll display control device for scroll-displaying, in synchronism with reproduction of series information (PI) correlated to text information (TI), the corresponding text information (TI) on a text display screen (TW), said scroll display control device comprising means (101, 102, 103 and 104) for changing a scroll speed (v) in said text display screen (TW) on the basis of a text quantity of said corresponding text information (TI) with respect to reproduction time of said series information (PI).

2. A scroll display control device for scroll-displaying, in synchronism with reproduction of series information (PI) correlated to text information (TI), the corresponding text information (TI) on a text display screen (TW), said scroll display control device comprising:

scroll speed calculation means (102) for calculating a scroll speed (v) on the basis of at least a time length of a series information section presently during reproduction and quantity of the text belonging to a text section corresponding to the series information section during reproduction; and

control means (104) for scroll-displaying the text belonging to the text section at a predetermined reference position of said text display screen (TW) according to said scroll speed (v).

3. The scroll display control device according to Claim 2, further comprising a text display setting information memory (103) for variably storing display setting information of the text displayed on said text display screen (TW);

wherein said scroll speed calculation means (102) calculates said scroll speed (v) of the text on the basis of the length of the series information section during reproduction, the quantity of the text belonging to the text section corresponding to the series information section during reproduction, and the

display setting information.

4. The scroll display control device according to Claim 3, wherein said text display setting information memory (103) variably stores a plurality of scroll methods and said control means (104) scroll-displays the text according to the selected scroll method.

5. The scroll display control device according to Claim 3, wherein said text display setting information memory (103) variably stores a predetermined reference position of said text display screen (TW).

6. The scroll display control device according to Claim 3, further comprising user instruction input means (105) for dynamically changing the text display setting information.

7. The scroll display control device according to Claim 2 or Claim 5, wherein text of a preceding text section preceding the text section and text of a succeeding text section succeeding the text section are respectively displayed in two adjacent areas across the text section displayed at the reference position.

8. The scroll display control device according to Claim 2, further comprising storage means (101) for searchably storing the series information (PI) and the text information (TI).

9. The scroll display control device according to Claim 2, wherein the series information (PI) and the text information (TI) corresponding thereto can be acquired by making access to a server for providing the series information (PI) and the text information (TI).

10. A scroll display control method, in a system for, in synchronism with reproduction of sound, displaying text information (TI) corresponding to the sound in a scroll manner, for displaying the text information by changing a scroll speed (v) adaptable to the sound during reproduction.

11. A scroll display control method, in a system, in synchronism with reproduction of a picture, for displaying and reading text information (TI) corresponding to the picture in a scrolling manner, for performing scroll display

by changing a scroll speed (v) adaptable to the picture under reproduction.

12. The scroll display control method according to Claim 11, wherein the text information (TI) to be displayed is text information belonging to a text section corresponding to the picture during reproduction and preceding and succeeding text sections thereof.

13. The scroll display control method according to Claim 11, wherein when a text section corresponding to a picture reproduction position is changed, said scroll speed (v) is derived on the basis of a time length of a picture section corresponding to the picture reproduction position and a text quantity of the text section corresponding to the picture reproduction position.

14. The scroll display control method according to Claim 11 or Claim 13, wherein said system has a changing function of the display setting of the text to be synchronously displayed with reproduction of the picture, and

wherein, when the display setting of the text is changed, said scroll speed (v) is derived on the basis of the changed display setting of the text.

15. The scroll display control method according to Claim 14, wherein reproduction of the picture is one of still picture reproduction, n-time (where, n is an integer equal to or greater than 1) reproduction, n-time rewind reproduction, and slow reproduction.

16. The scroll display control method according to Claim 15; wherein the text quantity of the text section is increased by changing the text display setting when reproduction of the picture is either fast-forward reproduction of at least two-time fast-forward reproduction or rewind reproduction.

17. The scroll display control method according to Claim 15, wherein the text quantity of the text section succeeding to the text section corresponding to the picture under reproduction is increased by changing the text display setting when reproduction of the picture is slow reproduction.

18. A computer system (40) for scroll-displaying, in synchronism with reproduction of picture information (PI) correlated to text information (TI), the

corresponding text information (TI), said computer system comprising:

display means (406) for providing a picture display screen for displaying picture information and a text display screen for displaying text information corresponding to the picture information;

a program control processor (401) for controlling display by said display means (406) of the picture information (PI) and the text information (TI); and

a memory (407) for storing a program executed on said program control processor, and

said program comprising:

a Step (409) of calculating a scroll speed (v) on the text display screen on the basis of at least a time length of a picture section presently under reproduction and quantity of the text belonging to a text section corresponding to the picture section; and

a step (408) of scroll-displaying the text belonging to the text section at a predetermined reference position of said text display screen according to the scroll speed (v).

19. A computer program making a computer (40) realize series information-ready text display, in synchronism with reproduction of series information (PI) correlated to text information (TI), for scroll-displaying the corresponding text information (PI) on a text display screen, said computer program comprising:

a step (409) of calculating a scroll speed (v) of the text on the basis of at least a time length of a series information section presently during reproduction and quantity of the text belonging to a text section corresponding to the series information section during reproduction; and

a step (408) of scroll-displaying the text belonging to the text section at a predetermined reference position of the text display screen according to the scroll speed (v).